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| **Southeast Alaska Coastal Monitoring Survey Plan, 2021** | | |
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**Southeast Alaska Coastal Monitoring Survey Plan, 2021**

**Keywords:** juvenile salmon, ocean monitoring, ecology, ecosystem, Southeast Alaska

This document outlines the survey plan for the Southeast Coastal Monitoring (SECM) survey during 2021. SECM surveys support harvest forecast models for SEAK pink salmon (*O. gorbuscha*), and research on the marine ecology of salmon and the pelagic ecosystem in the northern region of Southeast Alaska. SECM surveys will occur during monthly intervals from May to July, 2021. Sampling will include surface trawl (Nordic 264) sampling for salmon and other pelagic fish species, bongo net sampling for zooplankton, and CTD data collection of temperature and salinity data (Figures 1 and 2; Tables 1 and 2). Principal funding support for the 2021 survey is provided by the Pink Salmon Disaster Relief Fund and the Northern Fund of the Pacific Salmon Commission. Support for the participation of scientific staff from the Alaska Fisheries Science Center (AFSC), Alaska Department of Fish and Game (ADFG), and the Douglas Island Pink and Chum Salmon (DIPAC) is provided by respective agencies (Table 3).

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**Figure 1.** Icy Strait (IS\*), Upper Chatham Strait (UC\*), and Stephens Passage (SP\*) stations planned for the Southeast Alaska Coastal Monitoring survey aboard the *R/V Medeia* during June and July, 2021. Oceanographic data collections aboard the *R/V Sashin* at the Icy Strait and Upper Chatham Strait stations are planned for May, 2021.

Map

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**Figure 2.** Lower Chatham Strait (LC\*), and Sumner Strait (SS\*) stations planned for the Southeast Alaska Coastal Monitoring survey aboard the *R/V Medeia* during July, 2021. Alternative station locations (LCBU\*) are also shown in the event that weather conditions precludes sampling the Lower Chatham Strait stations.

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| **Table 1**. Coordinates of transect and stations sampled during the Southeast Alaska Coastal Monitoring survey in marine waters of the northern region of Southeast Alaska during 2021. | | | | |
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| Transect | Station | Latitude | Longitude |  |
| Upper Chatham Strait | UCA | 58°04.57’N | 135°00.08’W |  |
|  | UCB | 58°06.22’N | 135°00.91’W |  |
|  | UCC | 58°07.95’N | 135°04.00’W |  |
|  | UCD | 58°09.64’N | 135°02.52’W |  |
|  |  |  |  |  |
| Icy Strait | ISA | 58°13.25’N | 135°31.76’W |  |
|  | ISB | 58°14.22’N | 135°29.26’W |  |
|  | ISC | 58°15.28’N | 135°26.65’W |  |
|  | ISD | 58°16.38’N | 135°23.98’W |  |
|  |  |  |  |  |
| Stephens Passage | SPA | 58°10.76’N | 134°16.70’W |  |
|  | SPB | 58°12.37’N | 134°26.52’W |  |
|  | SPC | 58°13.91’N | 134°37.85’W |  |
|  | SPD | 58°18.38’N | 134°42.97’W |  |
|  |  |  |  |  |
| Lower Chatham Strait | LCA | 56°08.62’N | 134°40.22’W |  |
|  | LCB | 56°04.55’N | 134°35.72’W |  |
|  | LCC | 56°00.37’N | 134°30.25’W |  |
|  | LCD | 55°56.70’N | 134°24.85’W |  |
|  |  |  |  |  |
| Sumner Strait | SSA | 56°04.25’N | 133°57.44’W |  |
|  | SSB | 56°02.44’N | 133°54.11’W |  |
|  | SSC | 56°01.14’N | 133°51.42’W |  |
|  | SSD | 55°59.65’N | 133°48.46’W |  |

**Table 2.** Scheduled surveys for the Southeast Alaska Coastal Monitoring survey in marine waters of the northern region of Southeast Alaska, 2021.

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| Vessel,  survey # | Dates  (days) | Sampling Type | | Sampling conducted | | |
| *R/V Sashin*  SA21–01 | 28 May  (1 days) | Oceanography | | Oceanographic stations (n=8) in Icy/Chatham Strait. | | |
| *R/V Medeia*  ME21–01 | 18–23 June  (6 days) | Oceanography  Surface trawl | | Oceanographic and surface trawl stations in Icy Strait, Upper Chatham Strait, and Stephens Passage (n=12 stations). | | |
| *R/V Medeia*  ME21–02 | 26 July–4 August  (10 days) | Oceanography  Surface Trawl | | Oceanographic and surface trawl stations in Icy Strait, Upper Chatham Strait, Stephens Passage, Lower Chatham Strait, and Sumner Strait (n=20 stations). | | |
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**Table 3.** Scientific staff of the Southeast Alaska Coastal Monitoring survey in

marine waters of the northern region of Southeast Alaska, 2021.

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| Vessel  survey | Dates  (days) | Scientific Personnel (affiliation) |
| *R/V Sashin*  SA20-01 | 29 May  (1 days) | Emily Fergusson1 (AFSC)  Todd Miller (AFSC) |
| *R/V Medeia*  ME21-01 | 18–23 June  (6 days) | Jim Murphy1 (AFSC)  Ed Farley (AFSC)  Steve Heinl (ADFG)  Adam Zaleski (DIPAC) |
| *R/V Medeia*  ME20–02 | 26 July –4 August  (10 days) | Wess Strasburger1 (AFSC)  Andy Piston1 (ADFG)  Andy Gray (AFSC)  Dave Nicolls (AFSC) |

1 Chief Scientist